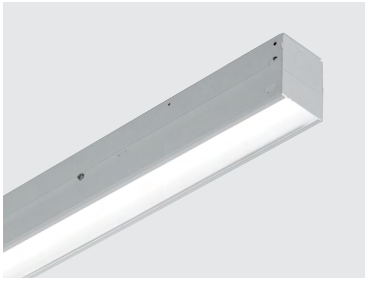
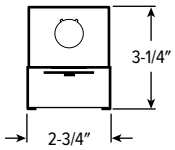
75L LED Flat Lens Strip





CATALOG #:

TYPE:

PROJECT:

FEATURES

- Small fixture profile allows inconspicuous placement in coves or confined spaces
- Choice of diffuse and prismatic lenses
- Flat lens provides even illumination and minimizes glare
- Row applications produce continuous light with minimal interruption between fixtures
- Wide range of light levels to meet application requirements
- Variety of surface and suspended mounting accessories
- Optional wireguard provides added protection
- High-performance up to 154 lm/W
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – 22-gauge die-formed C.R.S.
- FINISH – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- SHIELDING – Diffuse matte acrylic, .080″ thick.
- ELECTRICAL – High-quality mid-power LED board. L80 > 72,000 hours per IES TM-21. 25°C maximum ambient operating temperature. 50/60 Hz constant current driver. Tunable White products use LEDs of multiple shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – Surface (ceiling or wall) or suspended.
- LISTINGS –
  - cETLus conforms to UL STD 1598. Certified to CAN/CSA STD C22.2 No. 250.0. Suitable for damp locations.
  - UL 924 available, see Options.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

ORDERING EXAMPLE: 75L - 4 - L65/835 - DMA - OPTIONS - CONTROL/DIM - UNV

SERIES
75L

LENGTH
2 22-1/2″
4 44-5/8″
8 89-1/4″ [2]

LUMENS [1]

2′
L10 1,000lm
L15 1,500lm
L20 2,000lm
L32 3,200lm [3]
L40 4,000lm [4]

4′
L20 2,000lm
L38 3,800lm
L50 5,000lm
L65 6,500lm
L80 8,000lm [5]

8′
L40 4,000lm
L76 7,600lm
L100 10,000lm
L130 13,000lm
L160 16,000lm [6]

CRI
8 80
9 90

CCT
27 2700K
30 3000K
35 3500K
40 4000K
50 5000K
TW Tunable white (3000K-5000K)
TW2 Tunable white (2700K-6500K)

SHIELDING
DMA Diffuse matte acrylic, .080″ thick
AF12125 Frosted acrylic, pattern #12, .125″ thick

OPTIONS [7]

*See page 3 for **FINISH OPTIONS**.*

EM/10WLP Low-profile 10-watt emergency battery [8]
EM/10WRM Remote mount 10-watt emergency battery
EM/10WRM/RTS Remote mount 10-watt emergency battery with regressed test switch
EM/10W/ST 10-watt self-diagnostic emergency battery [9]
(L__) Additional lower lumen packages available [10] Example: 5,500 nominal lumens = 75L-4-L65/835-**(L55)**
WG-75 11-gauge white powder coat wireguard [11]
315 1-1/2″ ceiling spacer
VBY (2) Y-hangers
VBY-2 (2) Y-hangers with 2′ chains
RA-75 Row aligner [12]
45AMB (2) 45° adjustable mounting brackets [13]
QC__ Quick-connect wiring harness [14]
GEN Approved for UL 924 emergency generator circuit through-feed wiring [15]
SP1 10kV surge protection, 120 or 277V
SP2 10kV surge protection, 208 or 240V
SP3 10kV surge protection, 347V

AIRCRAFT CABLES (EXAMPLE: ACF/D48) [16]

Prefix		Type		Length	
ACF/	Feeder	**D**	1″ grid & hardpan	**24**	24″
ACJ/	Joiner	**N**	9/16″ grid	**48**	48″
		S	Slot grid	**96**	96″

CONTROL

*Click **HERE** for linear control and sensor options.*

*Click **HERE** for industrial control and sensor options.*

– None

DRIVER

*See page 4 for **ADDITIONAL DRIVER OPTIONS**.*

DIM Driver with external 0-10V dimming wires [18]
DIM1 1% Driver with external 0-10V dimming wires [19]
DRV Driver without external dimming wires [20]

VOLTAGE

120 120V
208 208V
240 240V
277 277V
UNV 120-277V
347 347V [17]

NOTES

1. Lumen output based on DMA shielding, 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see options.
2. Ships with (2) 4′ lenses.
3. Static white CCT only.
4. Static white CCT only.
5. Static white CCT only.
6. Static white CCT only.
7. Remote EM batteries: max remote distance 50′, including suspension length. Large remote box provided. Specify CEC in the option code when California Energy Commission regulations are required. See page 3 for REMOTE MOUNT BATTERY DETAILS.
8. Not available with 2′ fixtures, 4′ L80 or 8′ L160 lumen packages.
9. Not available with 2′ fixtures, 4′ L80 or 8′ L160 lumen packages.
10. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
11. Shipped separately, field-installed.
12. Required when row mounting with aircraft cables.
13. Cord recommended, ships separately. Field-adjustable up and down in 7-1/2° increments. Field-adjustable up and down in 7-1/2° increments.
14. See page 2 for QUICK-CONNECT OPTIONS.
15. Maximum mounting height is 15.4′ (4.7 m). Minimum lumen output is 400 lm/ft. See hew.com/UL924 for details.
16. Units specified with aircraft cable require cord. Requires RA-75 row aligner. See page 3 for MOUNTING DETAILS.
17. Not available with Tunable White or EM batteries.
18. 0.1% Driver with tunable white.
19. Not available with tunable white.
20. Not available with tunable white.

75L LED Flat Lens Strip

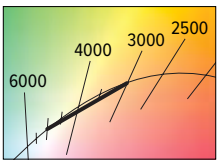
FIXTURE PERFORMANCE DATA

			DMA LENS		AF12125 LENS	
	LED PACKAGE	WATTAGE	DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
2′	L10	8.3	1023	123	1177	142
	L15	12.5	1514	121	1743	139
	L20	17.0	2024	119	2329	137
	L32	27.8	3209	116	3694	133
	L40	33.8	4014	119	4619	137
4′	L20	16.2	2045	126	2354	145
	L38	31.2	3936	126	4529	145
	L50	42.2	5131	122	5903	140
	L65	55.7	6547	118	7534	135
	L80	66.9	8080	121	9298	139
8′	L40	29.7	3975	134	4574	154
	L76	60.3	7677	127	8834	147
	L100	81.5	10129	124	11656	143
	L130	111.4	13093	118	15067	135
	L160	133.8	16161	121	18597	139

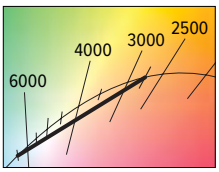
MULTIPLIER TABLE

	COLOR TEMPERATURE			
	CCT	STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

TW



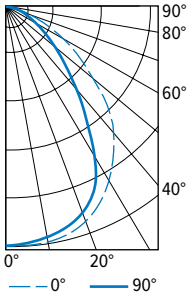
TW2



- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI, 3500K for single CCT and 4000K for tunable white, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.

PHOTOMETRY

75L-4-L65/835-DMA Total Luminaire Output: 6547 lumens; 55.7 Watts | Efficacy: 118 lm/W | 80 CRI; 3500K CCT



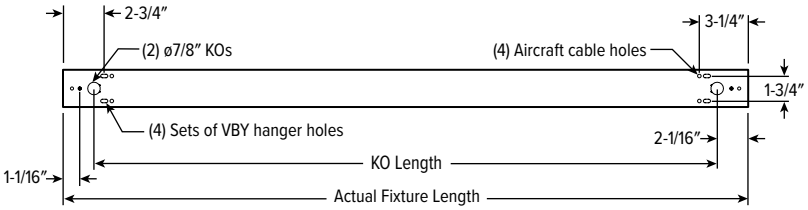
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	2916	2916	2916	
	5	2975	2900	2850	275
	15	2830	2751	2677	776
	25	2560	2448	2326	1127
	35	2183	2014	1846	1263
	45	1713	1505	1307	1174
	55	1198	1019	864	929
	65	743	605	506	619
	75	358	282	237	308
	85	82	59	56	75
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	2178	33
	0 - 40	3441	53
	0 - 60	5544	85
	0 - 90	6547	100
	0 - 180	6547	100

FIXTURE DETAILS

See hew.com/power-entry for power entry details.

BACKVIEW



	7/8″ KOs (G)	ACTUAL FIXTURE LENGTH (H)
2′	18-3/8″	22-1/2″
4′	40-1/2″	44-5/8″
8′	85-1/8″	89-1/4″

QUICK-CONNECT OPTIONS

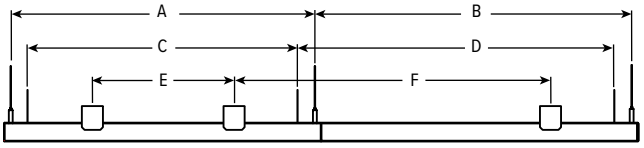
Note: Quick-connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
QCBRW	3	Black, Red, White	On/off switching (DRV) or line voltage dimming when equipped with EM battery packs
QCBW/PK	4	Black, White, Purple, Pink	Single circuit with 0-10V low voltage dimming (DIM)
QCRW/PK	4	Red, White, Purple, Pink	Alternating circuits on/off switching with 0-10V low voltage dimming (DIM)
QCBRW/PK	5	Black, Red, White, Purple, Pink	On/off switching when equipped with EM battery packs and 0-10V dimming (DIM)
QCBW/RPK	5	Black, White, Red, Purple, Pink	On/off switching with 0-10v dimming and 0-10v tunable using shared common
QCUU	N/A	N/A	QC harness passes through fixture, but is not connected to it

75L LED Flat Lens Strip

MOUNTING DETAILS

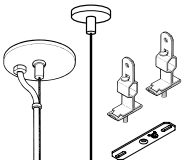
STAND ALONE SUBSEQUENT



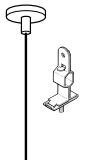
MOUNTING LENGTH

	AIRCRAFT CABLE		VBY HANGER		315 SPACER	
	A	B	C	D	E	F
2′	21-1/2″	22-1/2″	19″	22-1/2″	10″	22-1/2″
4′	43-5/8″	44-5/8″	41-1/4″	44-5/8″	32″	44-5/8″
8′	88-3/16″	89-1/4″	85″	89-1/4″	77″	89-1/4″

STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Power End or Stand-Alone



Row Mount Support

Notes:

- Fixtures are provided with adjustable length aircraft cables and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5″ canopy to cover the junction box and a 2″ canopy at the non-feed point. No J-box is required at non-feed points.

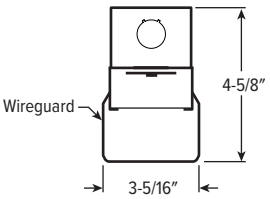
CORD FOR SUSPENDED PRODUCT

Units specified with aircraft cable require cord. Please specify cord type using ordering information below. Long fixture rows may require multiple feed points based on 18ga conductor size.

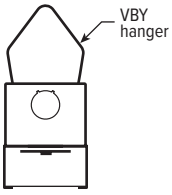
EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND.	WIRE SIZE	COLOR
S	**24** 24″ **48** 48″ **96** 96″	**3** **4** **5** [1] **6** [1]	**8D** 18ga	**/W** White **/B** Black

[1] Includes (2) 22ga purple & pink dimming conductors

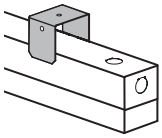
WG-75



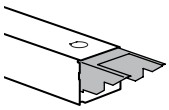
VBY



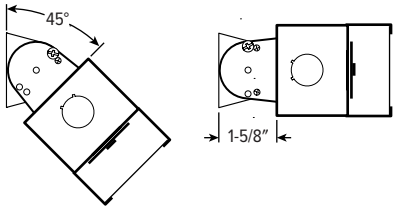
315



RA-75

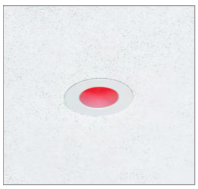


45AMB



REMOTE MOUNT BATTERY DETAILS

EM/10WRM/RTS

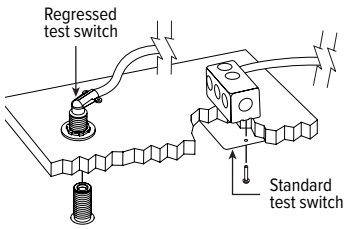


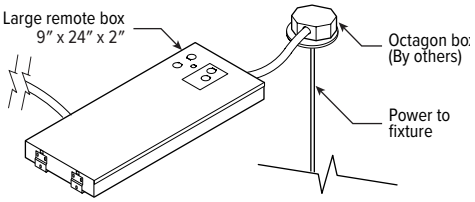
Regressed test switch
ø1-3/4″

EM/10WRM

Standard test switch
2-3/4″ x 4-1/2″

Max remote distance is 50′ including suspension length, connection by others.





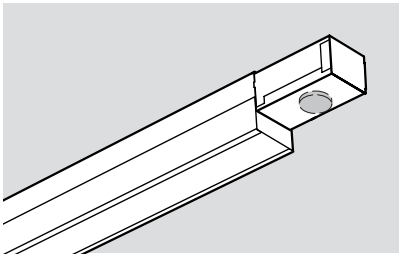
FINISH OPTIONS

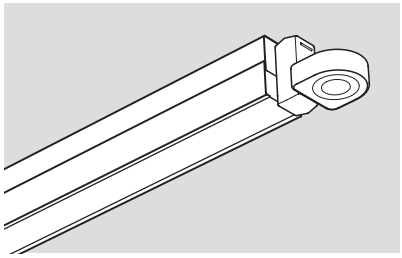
WHITE BLACK BRONZE NICKEL SILVER ALUM RAL#____

For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1″ square.

75L LED Flat Lens Strip

SENSOR PLACEMENT DETAILS





ADDITIONAL DRIVER OPTIONS

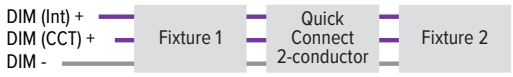
Note: Restrictions may apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV [1]	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls 0.1% dimming and (1) 0-10V signal controls CCT)
DIM1 [1]	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC [1]	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DSR	DALI-2 sensor-ready driver without external dimming wires (Not available with 347V. Static CCTs use D4i DALI-2 driver)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
SD40 [1]	40% step-dimming driver
SD50 [1]	50% step-dimming driver
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%
DCC	Remote UL Class 2 DC constant current supply, UL- or CSA-listed, by others

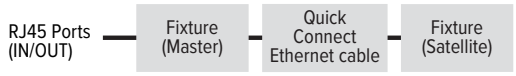
[1] Single CCT only.

TUNABLE WHITE DRIVER DETAILS

DIM



DMX



DALI

LD2